Test Procedure for the NCP348G Evaluation Board



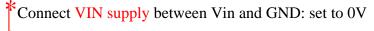
3/22/2007

Equipment

0-7V, 2A supply. 5V supply. (Low current) 2.5 ohms / 10W resistor (minimum 10 W) Multimeter.

Test Procedure

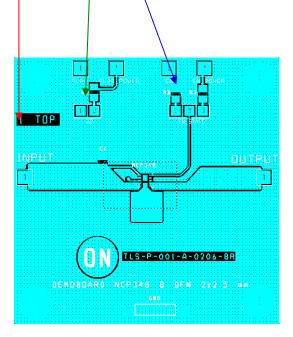
Setup



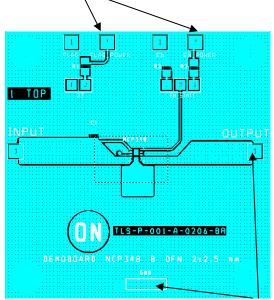
*Connect J2 shunt

Connect EN-state shunt on the left hand





Connect +5V supply on FLAG_POWER pin and EN_POWER pin. (use same supply)



Connect 2.5 ohms load between Vout and GND.

Part 1

- 1. Set VIN supply at 0.5V. Check Flag level = + 5V on FLAG pin.
- 2. Set VIN supply at 1.2V. Check Flag level = + 0V on FLAG pin. Check Vout=0V
- 3. Set Vin supply = 3.0V. Measure Vin supply current consumption. (Typical 70 μ A. Max 100 μ A). Check Vout = 0 V
- 4. Set Vin supply = 5V. Measure Vin supply current (around 2A)
- 5. Measure Voltage between Vin and Vout test points. Calculate Rdson to check solder. Rdson= (Vin-Vout)/I vin. (typical 70m ohms. Max 120 mohms)
- 6. Disconnect output load. Check Vout level. Vin = Vout = 5V. Check Flag level = 5 V
- 7. Measure current consumption. Typical 170µA. Max 300µA.

Part 2



1. Put EN_state shunt to right hand. Measure Vout = 0V, FLAG level= +5V



- 2. Put EN_state shunt to left hand.
- 3. Set Vin = 7V. Measure Vout = 0V, Check FLAG level = 0 V

Turn Off

- 1. Decrease Vin level =0V.
- 2. Disconnect EN and FLAG supply.
- 3. Disconnect Vin supply.